

## FIXED WIRELESS NETWORK EXTENDER

### Abstract:

A processor unit (164) with two system buses: bus1 (161) and bus2 (162), which multiple wireless networking radio units (102,112,122,132) and multiple wired networking units (165,166,167,168) can be connected to. The processor unit (164) is the system-operating platform, and dose the networking functions among the networking units. A radio control unit (163) monitor and control the physical part of radio performance. Each wireless networking radio unit (102,112,122,132) as long as each directional antenna (101,111,121,131) will communicate with remote same type of wireless networking device and form a wireless network link. Multiple wired networking units (165,166,167,168) can connect to wired network. The number and type of the wireless networking radio units (102,112,122,132) and wired networking units (165,166,167,168) can be selected, installed according to specific networking requirement, thus configure the hardware system of the device. The Fixed Wireless Network Extender (FWNE) device (10) can be configured with multiple different wireless networking radio units, to communicate with multiple different wireless networks, extend the range of the wireless network.